TE-PUFPLUS Hi-Vol Calibration Data Form

Site Information

Full Site Name: __Burns Harbor - Port of Indiana__

Site Abbreviation __BHP__   Sampler Serial No. __1006__

Field Technician Name __Kate Haile & Katie Healy__   Date __8/12/21__ Time __11:56 CST__

Timer/Sensor Checks *Allow Temp/Pressure standard to acclimate for 10 minutes before reading.*

Is the date correct? (YES) NO   (circle one)

Is the time within ±5 minutes of local standard time? (YES) NO   (circle one)

Temp/Pressure Standard Make/Model: __DeltaCal DC1__

Temp/Pressure Standard Serial No.: __179112__   Temp/Pressure Standard Certification Date: __2/2/21__

$T_{amb\ transfer\ standard}$ (°C) __28.5__ $T_{amb\ PUFPLUS}$ (°C) __28.5__   ($T_{amb\ transfer\ standard} - T_{amb\ PUFPLUS}$) = __0__ °C

Is the PUFPLUS Temperature sensor within ±2°C of the Transfer Standard? (YES) NO   (circle one)

$P_{amb\ transfer\ standard}$ (mmHg) __743.0__ $P_{amb\ PUFPLUS}$ (mmHg) __744__   ($P_{amb\ transfer\ standard} - P_{amb\ PUFPLUS}$) = __-1__ mmHg

Is the PUFPLUS Pressure sensor within ±10mmHg of the Transfer Standard? (YES) NO   (circle one)

- If both of the above are YES, sensor check is complete. Proceed with flow check.
- If either of the both is NO, use the TE-PUFPLUS Operator's Manual to troubleshoot and retry the sensor check. If the issue persists, add a calibration point to the faulty sensor as described in the SOP in Section 10.2.3. Note that a calibration was done here: _____

Calibration Orifice Information

Orifice Make/Model: __Graseby / Tisch__   Orifice Serial No.: __62K__

Orifice Slope "$m_{orifice}$": __10.46067__   Orifice Intercept "$b_{orifice}$": __-0.16706__

Orifice Certification Date: __2/4/21__

Hi-Vol Calibration Information *Check off each item.*

☑ Flow Conditions are set to "STD"?

☑ Flow Rate is set to 225 liters per minute?

Calibration Method: Manual (Automatic) (circle one)

Enter $m_{orifice}$ value from above when prompted to "Enter Calibrator Standard m".

Enter $b_{orifice}$ value from above when prompted to "Enter Calibrator Standard b".

☑ Hi Flow Rate should be 247 liters/min

☑ Lo Flow Rate should be 202 liters/min

Correction Coefficient "R" __0.9994__ >0.990? (Yes) No   (circle one)

Hi-Vol Slope "m_{hivol}" (A1) __35.2933__   Hi-Vol Intercept "b_{hivol}" (A0) __-1.3193__

Note: If the Correction Coefficient is ≤0.990, repeat the calibration.

☑ Calibration saved?